



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 04, 2013

WELL WORK PERMIT

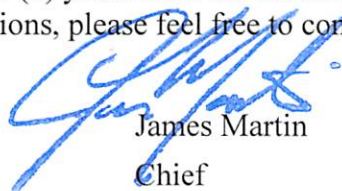
Secondary Recovery Well

This permit, API Well Number: 47-10302648, issued to HG ENERGY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: T. J. HIGGINBOTHAM 305
Farm Name: HG ENERGY, LLC

API Well Number: 47-10302648

Permit Type: Secondary Recovery Well

Date Issued: 12/04/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR § 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR § 4-19.1.c, if the operator is unable to sample and analyze any water well or spring within one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. If well work related activities require the use of water obtained by withdrawals from waters of this state in amounts that exceed two hundred ten thousand gallons during any thirty day period, the operator is required to consult, and adhere to, the guidance provided by DEP's Water Withdrawal Guidance Tool prior to any water withdrawals.

103026485

WW-3B
10/07

1) Date October 21, 2013
 2) Operator's Well No. T. J. Higginbotham No. 305
 3) API Well No. 47 - 103 - 2648
 State County Permit
 4) UIC Permit No. UIC2R10304AP

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

- 5) WELL TYPE: Liquid Injection X Gas Injection (not storage) _____ Waste Disposal _____
- 6) LOCATION: Elevation 977' Watershed Little Fishing Creek
 District Center 01 County Wetzel 103 Quadrangle Big Run 7.5' 254
- 7) WELL OPERATOR: HG Energy, LLC 494497948 8) DESIGNATED AGENT: Mike Kirsch
5260 Dupont Road 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101
- 9) OIL & GAS INSPECTOR TO BE NOTIFIED: 10) DRILLING CONTRACTOR:
 Name Derek Haught Name To Be Determined Upon Permit Approval
 Address PO Box 85 Address _____
Smithville, WV 26178
- 11) PROPOSED WELL WORK: Drill _____ Drill Deeper _____ Redrill _____ Stimulate _____
 Plug Off Old Formation _____ Perforate New Formation _____ Convert X
 Other Physical Change in Well (specify) _____
- 12) Geological target formation Gordon Depth 2,908 Ft. (Top) to 2,926 Ft. (Bottom)
- 13) Estimated depth of completed well (or actual depth of existing well) 3110' Ft.
- 14) Approximate water strata depths: Fresh 125 Ft. Salt 1,700 Ft.
- 15) Approximate coal seam depths: 780 Ft.
- 16) Is coal being mined in the area? Yes X No
- 17) Virgin reservoir pressure in target formation: 60 psig. Source Estimated
- 18) Estimated reservoir fracture pressure: 1200 psig.
- 19) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour 25 bbl/hr Bottom Hole Pressure 2400 psi
- 20) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES and other chemicals as needed to maintain water quality and improve oil recovery. Fresh water, produced water, bactericides
- 21) FILTERS (IF ANY) Cartridge filters and/or coal bed filters
- 22) SPECIFICATION FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL _____
- 23) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cm)	Office of Oil and Gas Dept. of Environmental Protection
	Size	Grade	Weight	New	Used	For Drilling	Left in Well		
Conductor									Kinds
Fresh Water	9 5/8"	LS	32#	X		275'	275'	Use Existing Casing	Tension
Coal									Sizes
Intermediate	7	LS	17#	X		1500'	1500'	Use Existing Casing	2.375" X 4.5"
Production	4 1/2"	J-55	10.5#	X		3050'	3050'	Use Existing Casing	Depths Set
Tubing	2 3/8"	J-55	4.6#	X		2810'	2810'		2710'
Liners									Perforations
									Top Bottom

- 24) APPLICANTS OPERATING RIGHTS were acquired from Joe B. Joliffe et al
 by Deed _____ Lease X Other Contract _____ Dated January 17, 2010 of record in the
Wetzel County Clerk's Office in Lease Book 92A at Page 392

Received
 NOV 13 2013
 Office of Oil and Gas
 Dept. of Environmental Protection

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: HG ENERGY LLC

Operator Well No.: T.J. HIGGINBOTHAM 305

LOCATION: Elevation: 977'

Quadrangle: BIG RUN 7.5'

District: CENTER

County: WETZEL

Latitude: 1,835 Feet south of 39 Deg 37 Min 30 Sec.

Longitude: 11,060 Feet west of 80 Deg 35 Min 0 Sec.

Company Address:	HG Energy PO Box 5519 Vienna, WV 26105	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Inspector:	Derek Haught				
Date Permit Issued:	06/28/2011				
Date Well Work Commenced:	06/02/2011				
Date Well Work Completed:	07/21/2011				
Verbal Plugging:					
Date Permission Granted On:					
Rotary X Cable	Rig	9 5/8"	289'	289'	125 sks
Total vertical Depth (ft):	3110'				
Total Measured Depth (ft):	3110'				
Fresh Water Depth (ft):	150'	7"	1507'	1507'	280 sks
Salt Water Depth (ft):	None				
Is Coal being mined in ares (Y/N)?	No	4 1/2"	3052.05'	3052.05'	150 sks
Coal Depths (ft): x	850'-860'				
Void(s) encountered (Y/N) depth(s):	NONE				

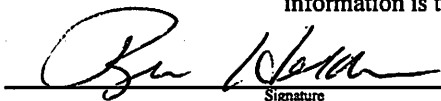
OPEN FLOW DATA

* Waterflood Producer

Producing formation Gordon Pay zone depth (ft) 2912'-2926'
 Gas: Initial open flow * MCF/d Oil: Initial open flow * Bbl/d
 Final open flow * MCF/d Final open flow * Bbl/d
 Time of open flow between initial and final tests * Hours
 Static rock pressure * psig (surface pressure) after * Hours

Second producing formation Pay zone depth (ft)
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock pressure psig (surface pressure) after Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

8/20/12
Date

RECEIVED
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS
AUG 22 2012

Were core samples taken? No

Were cuttings caught during drilling? No

103026485

Were Y Electrical, N Mechanical, N or Geophysical logs recorded on this well?
Y/N Y/N Y/N

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Treatment : Treated perfs 2912'-2926' w/ 250 gals. 15% HCL,
340 bbls cross linked gel, and 16,600# 20/40 sand.

Well Log : All depths are measured relative to KB (8' AGL).

Shale w/ sand streaks	0	-	850
Coal	850	-	860
Sand/Shale	860	-	1333
sand	1333	-	1366
shale	1366	-	1376
sand	1376	-	1392
shale	1392	-	1446
sand	1446	-	1470
shale	1470	-	1503
sand	1503	-	1566
shale	1566	-	1606
sand	1606	-	1642
shale	1642	-	1672
sand	1672	-	1699
shale	1699	-	1720
sand	1720	-	1766
shale	1766	-	1804
sand	1804	-	1910
shale	1910	-	1995
sand	1995	-	2008
shale	2008	-	2021
sand	2021	-	2032
Big Lime	2032	-	2098
Big Injun	2098	-	2312
shale	2312	-	2879
Gordon Stray	2879	-	2902
shale	2902	-	2908
Gordon	2908	-	2928
shale	2928	-	2940
sand	2940	-	2946
shale	2946	-	3110
TD	3110	-	

T.D. -Logger	3109	KB
T.D. -Driller	3110	KB

Received

NOV 13 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

103026485

WW-3A

10/07



1) Date: October 21, 2013
2) Operator's Well No. T. J. Higginbotham No. 305
3) API Well No. 47 103 - 2648
State County Permit
4) UIC Permit No. UIC2R10304AP

STATE OF WEST VIRGINIA
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5) Surface Owner(s) To Be Served

(a) Name HG Energy, LLC
Address 5260 Dupont Road
Parkersburg, WV 26101

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Derek Haught
Address PO Box 85
Smithville, WV 26178
Telephone 206-7613

7 (a) Coal Operator

Name NA
Address _____

7 (b) Coal Owner(s) With Declaration Of Record

Name NA
Address _____

Name NA
Address _____

7(c) Coal Lessee With Declaration Of Record

NA

TO THE PERSON(S) NAMED ABOVE: You should have received this form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work;
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is NA

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON FORM WW-3(A) DESIGNATED TO YOU. HOWEVER YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to a well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of the mailing or delivery to the Chief.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Well Operator HG Energy, LLC
Address 5260 Dupont Road
Parkersburg, WV 26101

By: Diane C. White
Its: Accountant

Signature

Diane C White

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at: depprivacyofficer@wv.gov

WW-2B1

Well No. T. J. Higginbotham No. 305

West Virginia Department of Environmental Protection
Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

X Contractor Name Sturm Environmental Services
 _____ Well operator's private laboratory

Well Operator HG Energy, LLC
 Address 5260 Dupont Road
Parkersburg, WV 26101
 Telephone 304-420-1119

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underlining which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

No known Water Supply Sources are located within 2000' of proposed well.

FILED
 OFFICE OF OIL AND GAS
 NOV 13 2013
 PARKERSBURG, WV
 BY: [Signature]
 [Signature]

103026485

Form WW-9
Rev. 10/94

Page 3 of 8
API Number 47- 103 - 2648
Operator's Well No. T. J. Higginbotham No. 305

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator HG Energy, LLC OF Code 494497948
Watershed Little Fishing Creek Quadrangle Big Run 7.5'
Elevation 977' County Wetzel District Center
Description of anticipated Pit Waste: A pit will not be used
Do you anticipate more than 5,000 bbls of water to complete the proposed well work Yes No X
Will a synthetic liner be used in pit? NA If so, what mil.?
Proposed Disposal Method For Treated Pit Wastes:
 Land Application
 Underground Injection (UIC Permit Number)
 Reuse (at API Number)
 Off Site Disposal (Supply Form WW-9 for disposal location)
 Other (Explain)
Drilling medium anticipated for this well? Air, fresh water, oil based, etc. NA
- If oilbased, what type? Synthetic, petroleum, etc.
Additives to be used? NA
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc.
- If left in pit and plan to solidify, what medium will be used? Cement, lime, sawdust NA
- Landfill or offsite name/permit number?

DMH
10-08-13

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Diane C. White
Company Official (Typed Name) Diane C. White
Company Official Title Accountant

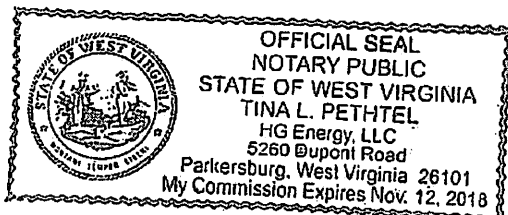
Subscribed and sworn before me this 21 day of October 2013

Tina L. Pethel

Notary Public

My commission expires Nov. 12, 2018

Form WW-9



RECEIVED
OCT 21 2013
DEPT. OF ENVIRONMENTAL PROTECTION

Legend

Property Boundary		Diversion	
Road		Spring	
Existing Fence		Wet Spot	
Planned Fence		Drain Pipe	
Stream		Waterway	
Open Ditch		Cross Drain	
Rock		Filter Strip	
North		Pit: Cut Walls	
Buildings		Pit: Compacted Fill Walls	
Water Wells		Area of Land Application of Pit Waste	
Drill Site			

Area I		
Proposed Revegetation Treatment: Acres Disturbed	Approx. 0.2 Ac.	Prevegetation pH

Area II
Approx. 0.1 Ac.

Lime	<u>2</u>	Tons/Acre or Correct to pH	<u>6.5</u>
Fertilizer (10-20-20 or Equivalent)	<u>500</u>	Lbs./Acre (500 lbs. Minimum)	
Mulch	Straw	<u>2</u>	Tons/Acre

SEED MIXTURES

<u>Area I (Location)</u>	
Seed Type	Lbs./Ac.
Tall Fescue	40
Laдино Clover	5

Area II (Road)	
Seed Type	Lbs./Ac.
Tall Fescue	40
Ladino Clover	5

Attach:

Drawing(s) of road, location, pit and proposed area for land application
Photocopied section of involved 7.5' topographic sheet.

Plan approved by: 

Comments:

Title: Oil & Gas Inspector

Date: 10-28-17

Field Reviewed?

(✓) Yes

() No

Received

NOV 13 2019

Office of Oil and Gas
WV Dept. of Environmental Protection

Reclamation Plan For: T.J. Higginbotham No. 305

47-103-2648

NOTE:

WELL LOCATION WAS BUILT AND RECLAIMED UNDER DRILLING PERMIT No. 47-103-2648. ONLY MINIMAL EARTHWORK WILL BE REQUIRED FOR PROPOSED WELL WORK. ALL DISTURBED AREAS WILL BE RE-VEGETATED AS PER THE SEEDING PLAN ON FORM WW-9. NO WORK-OVER PIT WILL BE REQUIRED FOR PROPOSED WELL WORK.

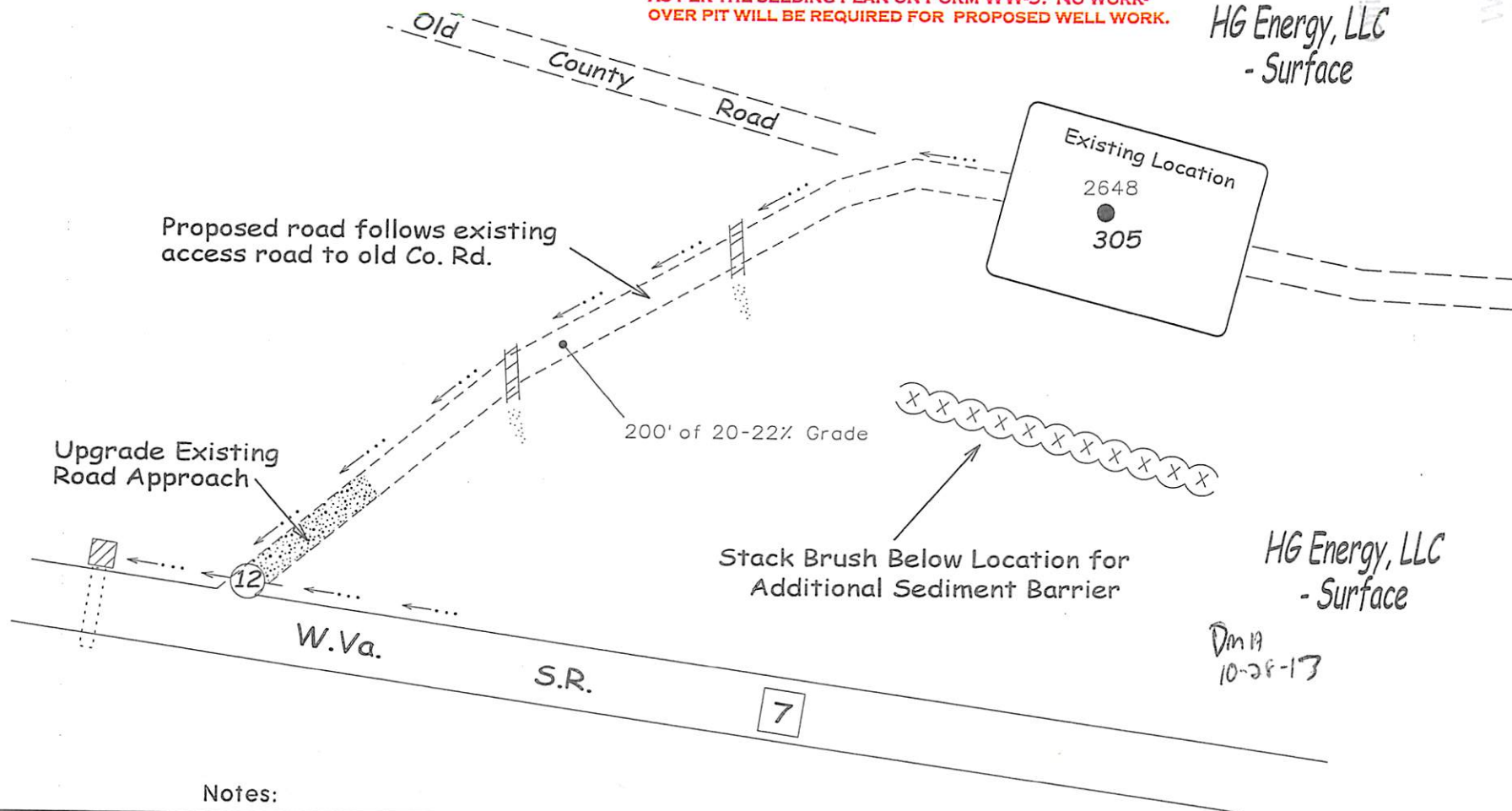
RECEIVED
Office of Oil and Gas

NOV 13 2013

WV Department of
Environmental Protection



HG Energy, LLC
- Surface



Notes:

- Requested permit is for conversion of existing well.
- Access from State Route 7 to well location is existing. Structures will be maintained.
- All disturbed areas will be re-vegetated as outlined on Form WW-9.
- Maintain sediment barriers and drainage structures.
- All road grades <5% except as noted.

NOTE

REFER TO THE WVDEP
EROSION AND SEDIMENT CONTROL
FIELD MANUAL VER. MAY 2012 FOR
BMPs CONTROLLING EROSION AND
SEDIMENT FROM SOIL-DISTURBING
OPERATIONS.

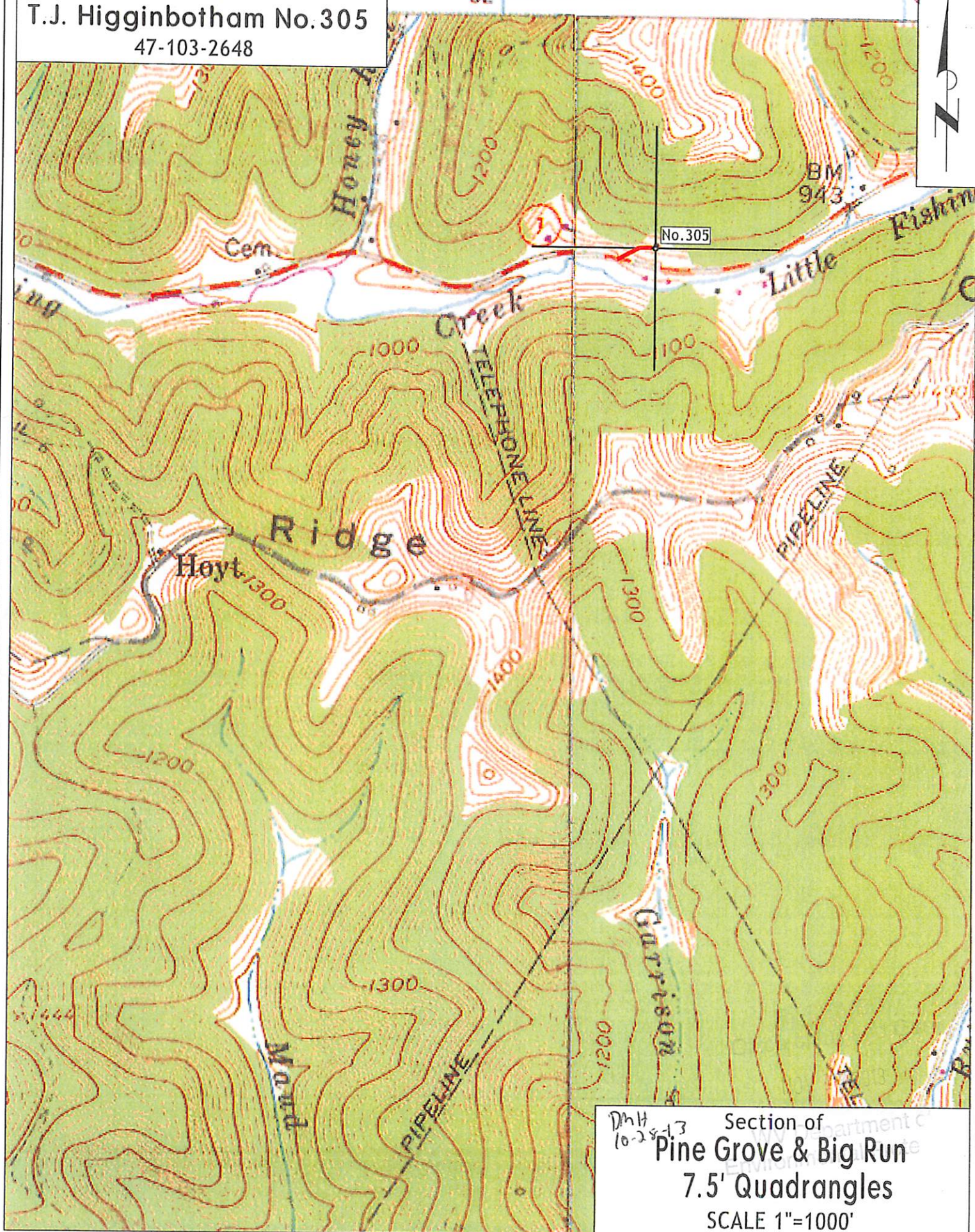
Note: Drawing not to Scale

SUBJECT WELL

T.J. Higginbotham No.305

47-103-2648

32 80° 37' 30"



DMH
10-28-13
Section of
Pine Grove & Big Run
7.5' Quadrangles
SCALE 1"=1000'

Longitude - 80° 37' 21.4"

11,060'

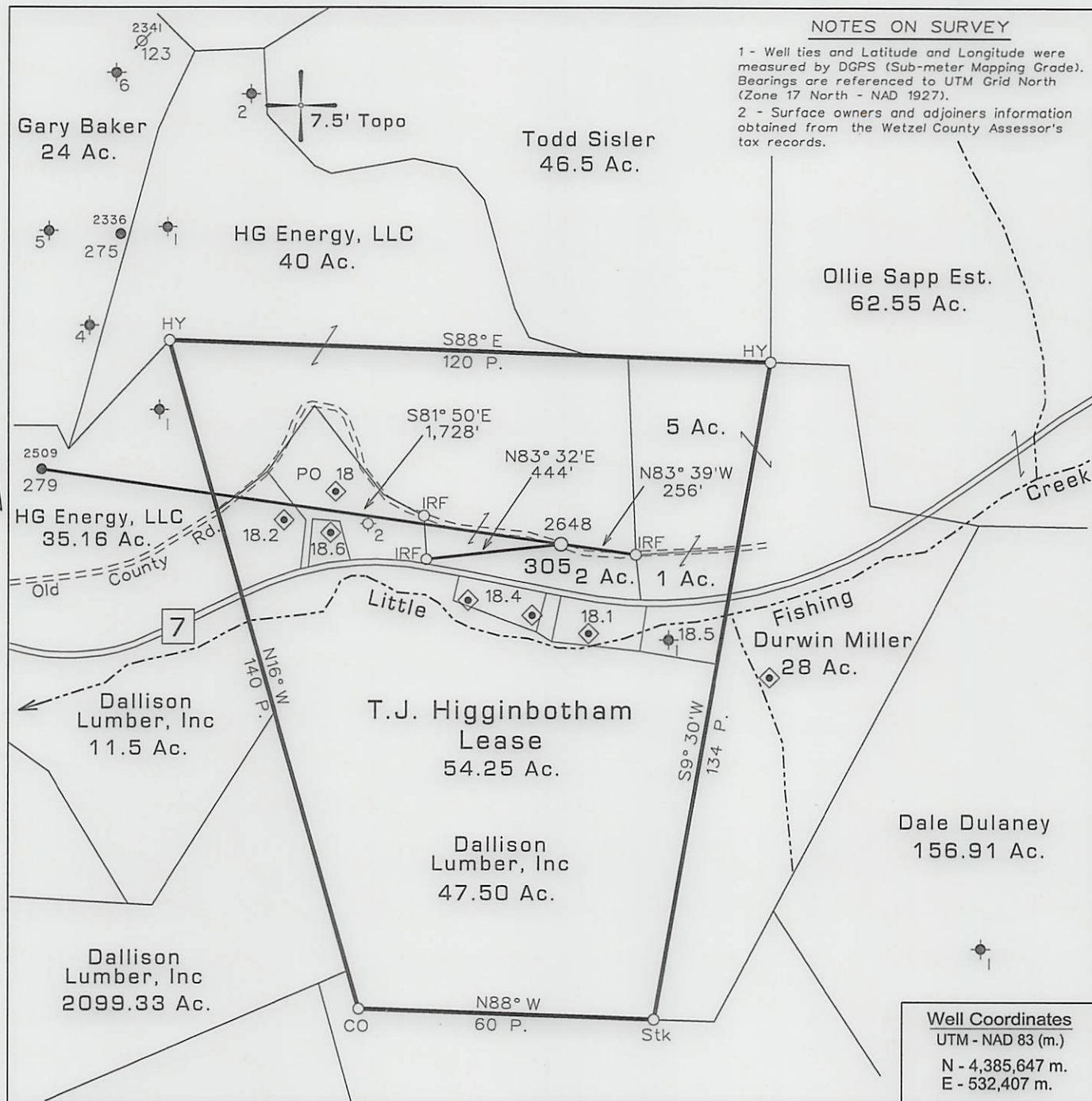
LATITUDE 39° 37' 30"

1,860'

LONGITUDE 80° 35' 00"

NOTES ON SURVEY

- 1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).
- 2 - Surface owners and adjoiners information obtained from the Wetzel County Assessor's tax records.

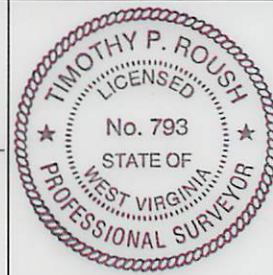


— DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. — DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.

FILE NO. 1047-03
MAP NO. N S E W
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY Sub-Meter
PROVEN SOURCE OF ELEVATION DGPS Survey
(Sub-Meter Mapping Grade)

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Timothy P. Roush
TIMOTHY P. ROUSH PS 793



WEST VIRGINIA

Division of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25304



DATE October 21, 2013
FARM T.J. Higginbotham No.305
API WELL NO. 47-103-02648S

WELL TYPE: OIL GAS LIQUID INJECTION ☒ WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW CBM

LOCATION: ELEVATION 977' WATERSHED Little Fishing Creek
DISTRICT Center COUNTY Wetzel
QUADRANGLE Big Run 7.5'

SURFACE OWNER HG Energy, LLC ACREAGE 20 Ac.
OIL & GAS ROYALTY OWNER Joe Jolliffe et al. LEASE ACREAGE 54.25 Ac.
LEASE NO. 107605-00

PROPOSED WORK: DRILL ☐ CONVERT ☒ DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Convert to Liquid Injection

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Gordon ESTIMATED DEPTH 3,110'
WELL OPERATOR HG Energy, LLC DESIGNATED AGENT Mike Kirsch
ADDRESS 5260 Dupont Road ADDRESS 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101